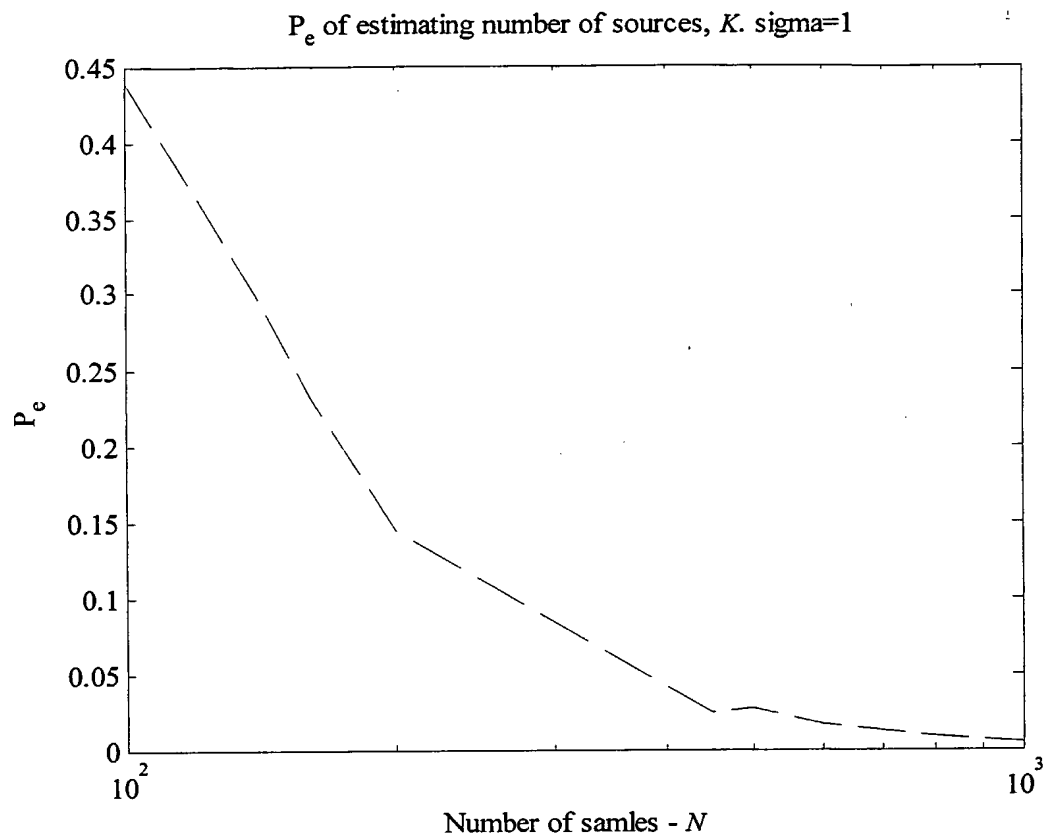
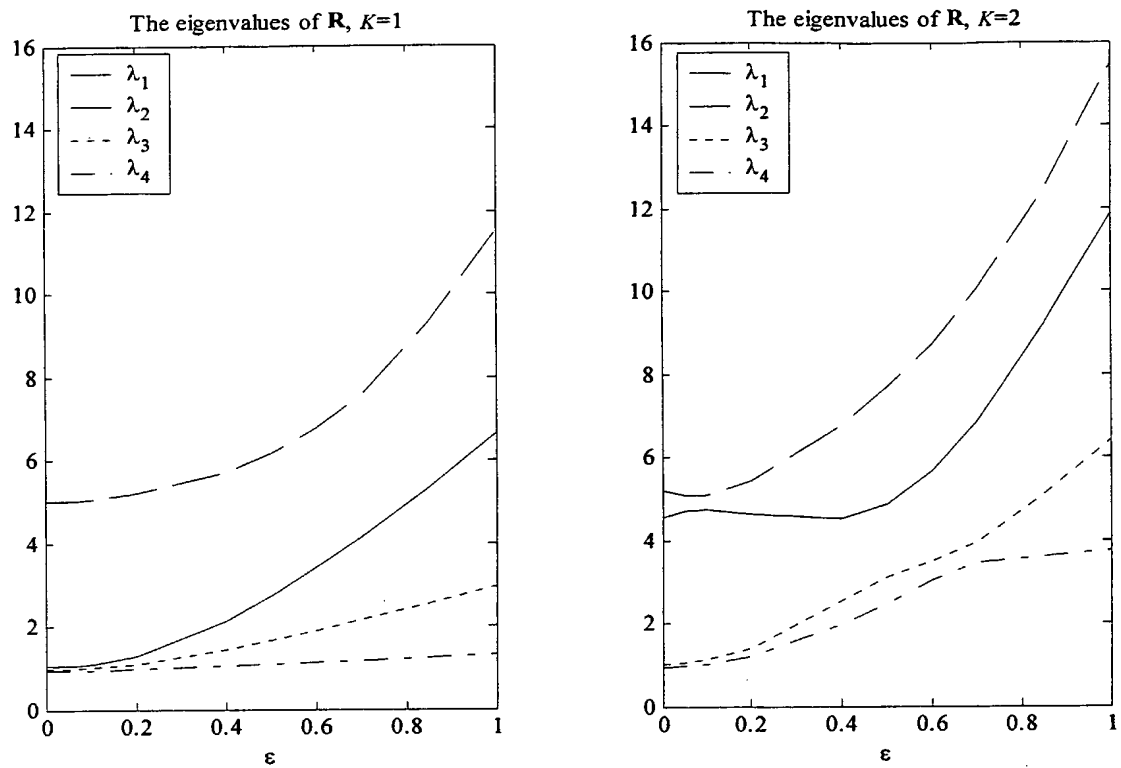


**Figure 1:** Block diagram of the MIMO AR model



**Figure 2:**  $P_e$  of GLRT, coherent sources



**Figure 3:** The eigenvalues of  $\hat{R}$  versus the scattering level,  $\varepsilon$ .

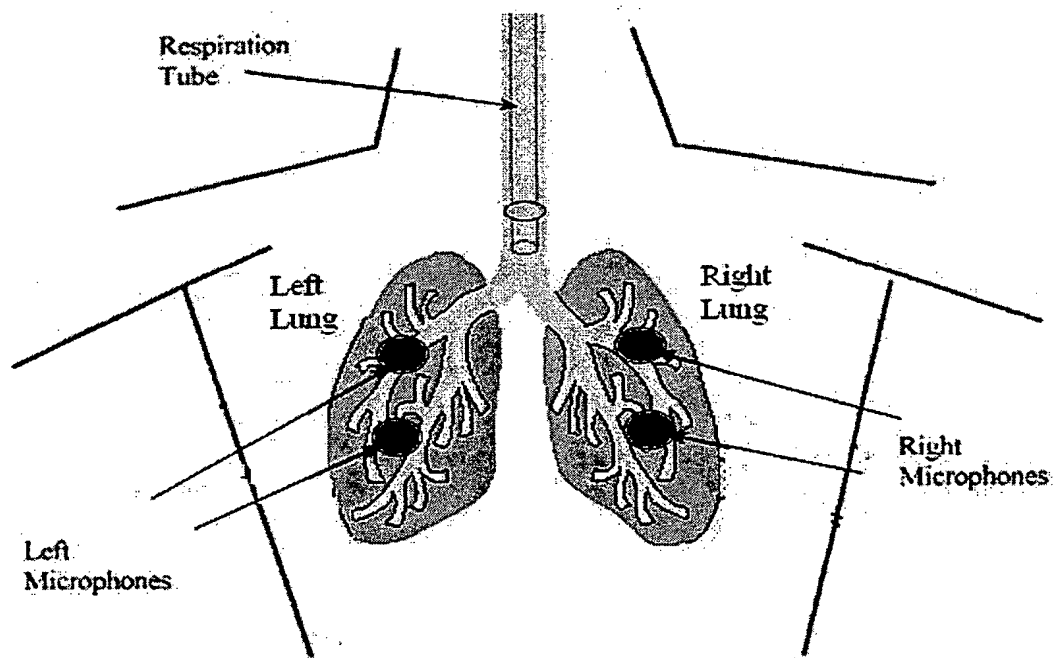
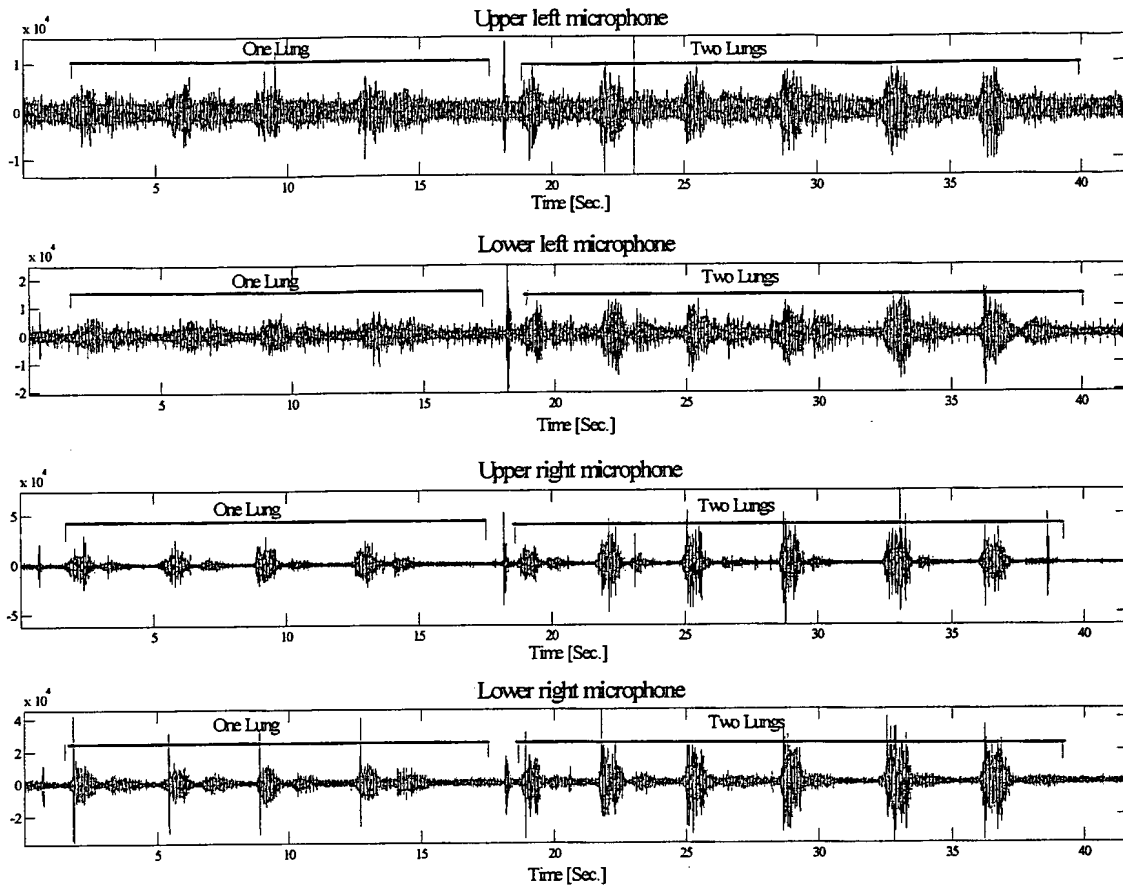
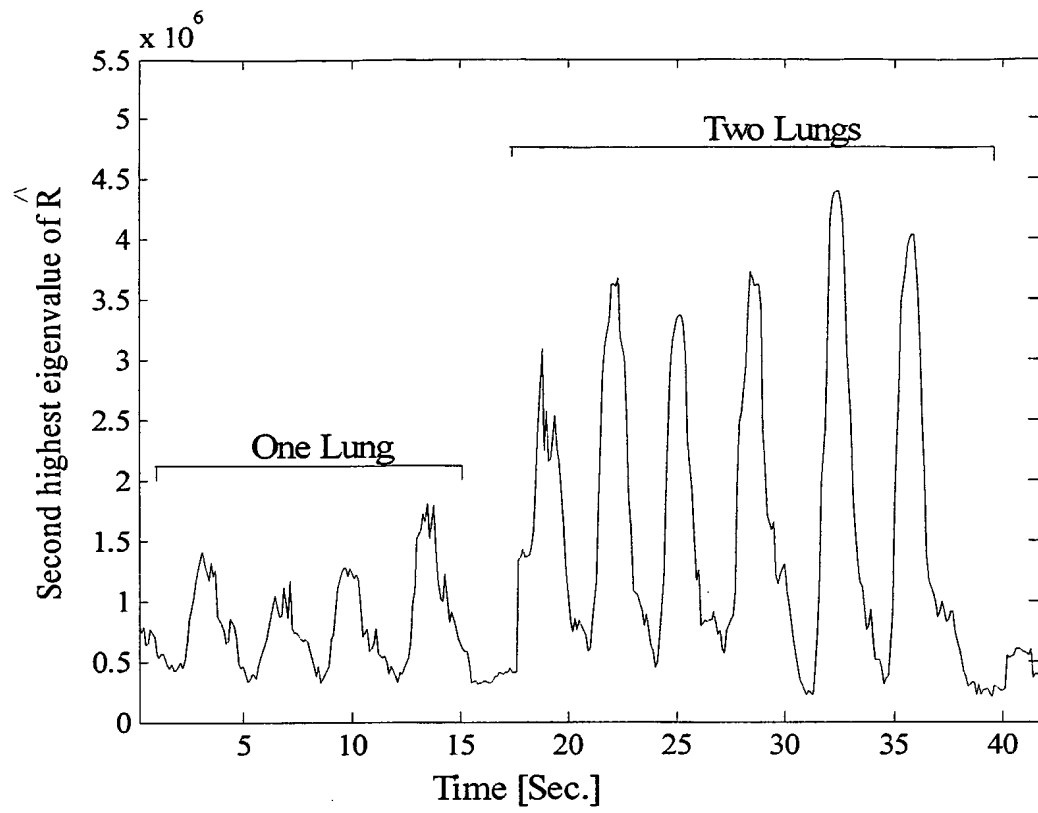


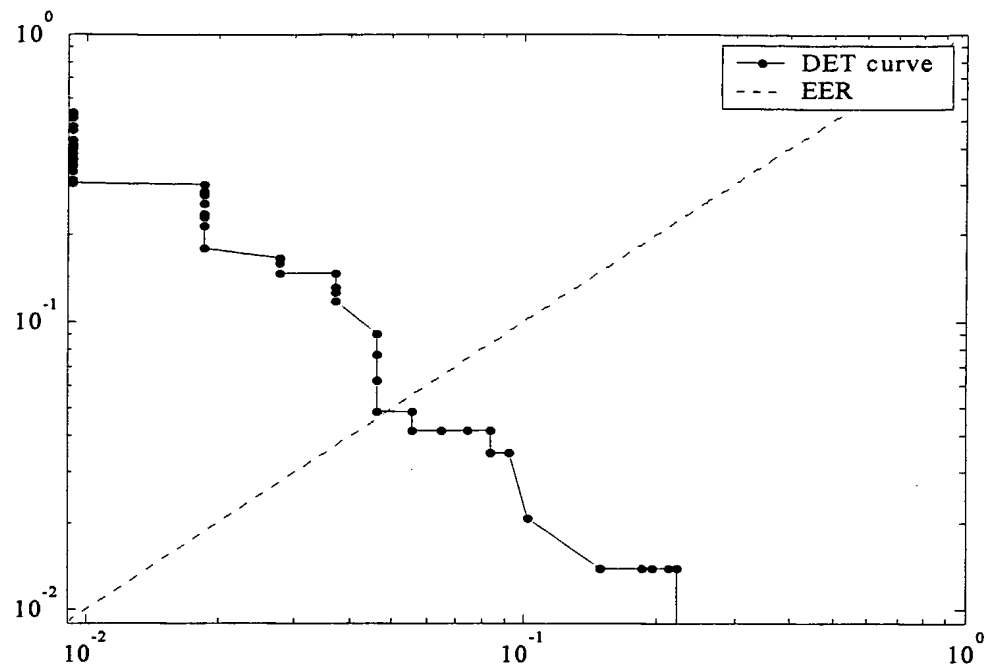
Figure 4: Experimental set-up – view from back (TRI shown)



**Figure 5:** Examples of the recorded signals – four microphones, OLI and TRI cases.



**Figure 6:** Second highest eigenvalue of  $\hat{R}$  as a function of time.



**Figure 7:** The DET of a detector based on the second highest eigenvalue of the estimated **R**.